





**COMMENT**  
A DNA library was constructed (see JDN 1997) from the genome of *Drosophila melanogaster* (Drosophila melanogaster genome sequencing project, <http://www.genome.washington.edu/>). The library was constructed in collaboration with the Beck-Potter Drosophila Genome Project (BGP). The BGP is constructing a physical map of the *Drosophila melanogaster* genome using these BACs. For further information please see <http://www.genome.washington.edu/>.

Aaron Munnissen in Pieter de Jong's laboratory in the Department of Cancer Genetics at the Roswell Park Cancer Institute in Buffalo, NY. The library is named BGP1. It was constructed by partial EcoRI digestion of *Drosophila* DNA provided by the BGP. From the isogenic strain Y25, on BACs, the same strain used for the BGP's P1 and P2 libraries. A more detailed description of the library and how to order individual BAC clones, the entire library, or filters for hybridization from the BGP Resource Center can be found at <http://www.genome.washington.edu/BGP1/>.

#### FEATURES

##### Source

*Drosophila melanogaster*

Genomic DNA



melanoma cell line using these BACs. For further information please see <http://www.tuebingen.de/koepf/koepf.html>.  
melanoma BAC library was prepared by Kazuyuki Sano, Atsushi and Aaron Manochehri in Picard de Jonchere's laboratory in the Department of Genetics at the Roswell Park Cancer Institute in Buffalo, NY. The library is named BAC-09 and was constructed by partial EcoRI digestion of *Brachipoda* DNA provided by the BAC from the isogenic strain 32, as the 5F, the same strain used for the BAC-PL and BSL libraries. A more detailed description of the library and how to order individual BAC clones, the archive library and filters for hybridization from the BACs homepage, <http://www.tuebingen.de/koepf/koepf.html>, is found at <http://www.tuebingen.de/koepf/koepf.html>.

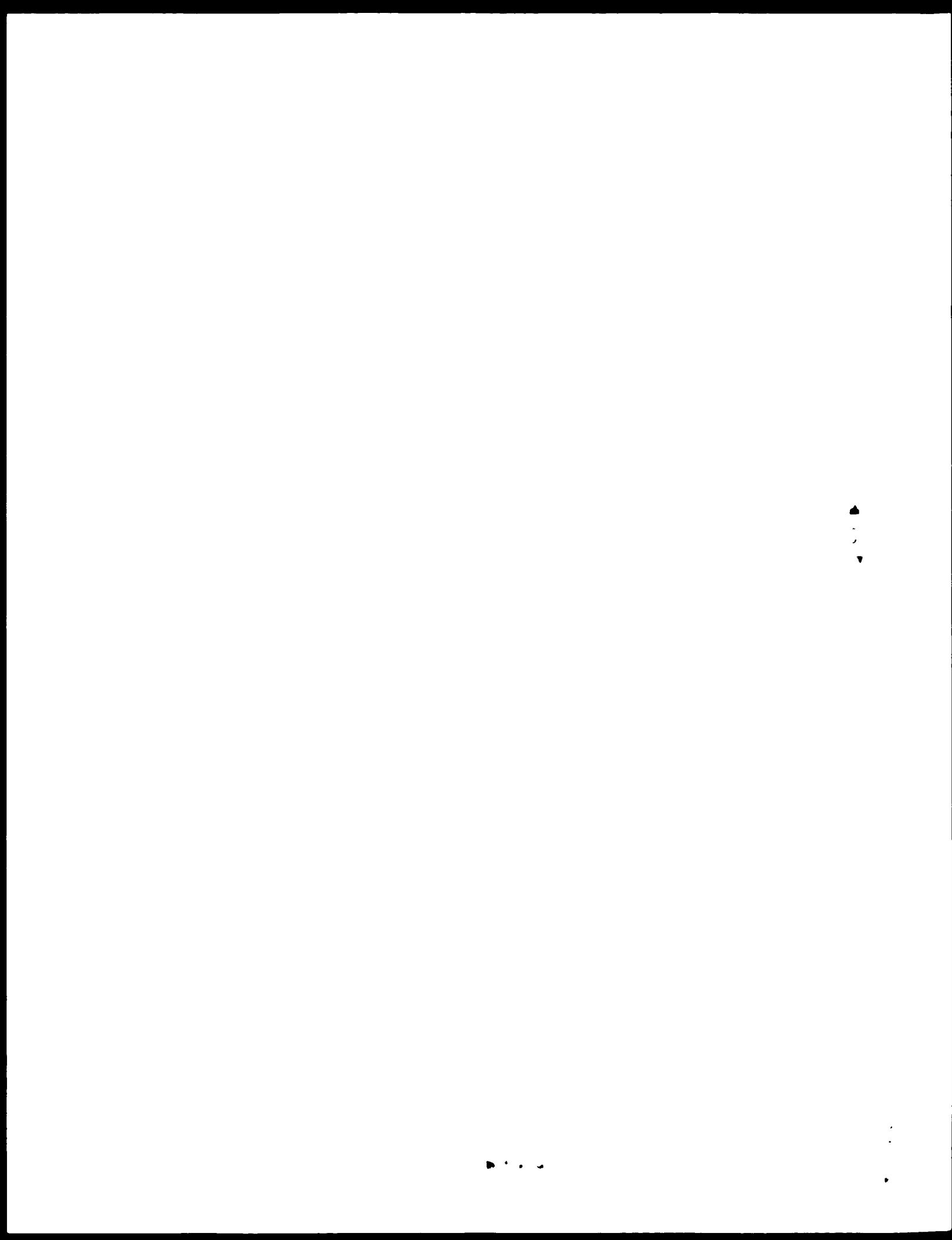
294 a 54 c 151 9 232 1 504 1048 5











- score greater than equal to the score of the best hit found for interest, and is detected by analysis of the total score distribution.

## SUMMARY

Result No.	Query	Score	Batch length	DB	ID	blastp hit
1	B3.6	0.8	625	8	AF110779	AF110779, Bacteriophage
2	B5.2	0.9	27241	2	AC115575	AC115575, Bacteriophage
3	B5.48	5.9	25117	2	AF116102	AF116102, Bacteriophage
4	B4.6	5.8	7834	6	AF251294	AF251294, Sequence
5	B5.2	5.7	294914	3	AB013603	AB013603, Fasta file
6	B2	5.6	7241	6	AF44662	AF44662, Sequence
7	B3	5.6	7851	6	AF44663	AF44663, Sequence
8	B1.4	5.6	191450	9	AF3212645	AF3212645, Bacteriophage
9	B2.2	5.5	6673	6	AF448595	AF448595, Sequence
10	B2.2	5.5	94475	5	AF572088	AF572088, Bacteriophage
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12	B1.6	5.5	1600	3	AB048742	AB048742, Bacteriophage
13	B1.6	5.5	1602	3	AB448752	AB448752, Bacteriophage
14	B1.4	5.4	2281	3	AF446467	AF446467, Bacteriophage
15	B1.4	5.4	61052	2	AF117074	AF117074, Bacteriophage
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AUTHORS Baudart, C. <sup>1</sup>	
JOURNAL bioRxiv preprint doi: https://doi.org/10.1101/411603; this version posted February 25, 2003. The copyright holder for this preprint (which was not certified by peer review) is the author/funder, who has granted bioRxiv a license to display the preprint in perpetuity. It is made available under aCC-BY-NC-ND 4.0 International license.	
TITLE Proteome analysis of the human brain cortex and cerebellum	
ABSTRACT The brain is the most complex organ in the human body. The proteome of the brain is therefore very complex. In this study, we have used a combination of two-dimensional gel electrophoresis (2DGE) and mass spectrometry (MS) to analyze the proteome of the human brain cortex and cerebellum. The samples were obtained from the Human Brain Tissue Resource Center (HBT) and the Human Brain Tissue Bank (HTB) of the National Institute of Neurological Disorders and Stroke (NINDS). The samples were analyzed using a combination of 2DGE and MS. The results show that the proteome of the human brain cortex and cerebellum is very complex, with many different proteins being identified. The results also show that the proteome of the human brain cortex and cerebellum is very similar, with only a few differences being observed. The results also show that the proteome of the human brain cortex and cerebellum is very similar, with only a few differences being observed.	
RESULTS The results show that the proteome of the human brain cortex and cerebellum is very complex, with many different proteins being identified. The results also show that the proteome of the human brain cortex and cerebellum is very similar, with only a few differences being observed.	
DISCUSSION The results show that the proteome of the human brain cortex and cerebellum is very complex, with many different proteins being identified. The results also show that the proteome of the human brain cortex and cerebellum is very similar, with only a few differences being observed.	
CONCLUSION The results show that the proteome of the human brain cortex and cerebellum is very complex, with many different proteins being identified. The results also show that the proteome of the human brain cortex and cerebellum is very similar, with only a few differences being observed.	
ACKNOWLEDGMENTS The authors would like to thank the Human Brain Tissue Resource Center (HBT) and the Human Brain Tissue Bank (HTB) of the National Institute of Neurological Disorders and Stroke (NINDS) for providing the samples used in this study.	
REFERENCES The references used in this study are as follows:	
1. Baudart, C. (2003) Proteome analysis of the human brain cortex and cerebellum. <i>bioRxiv</i> preprint doi: https://doi.org/10.1101/411603; this version posted February 25, 2003. The copyright holder for this preprint (which was not certified by peer review) is the author/funder, who has granted bioRxiv a license to display the preprint in perpetuity. It is made available under aCC-BY-NC-ND 4.0 International license.	





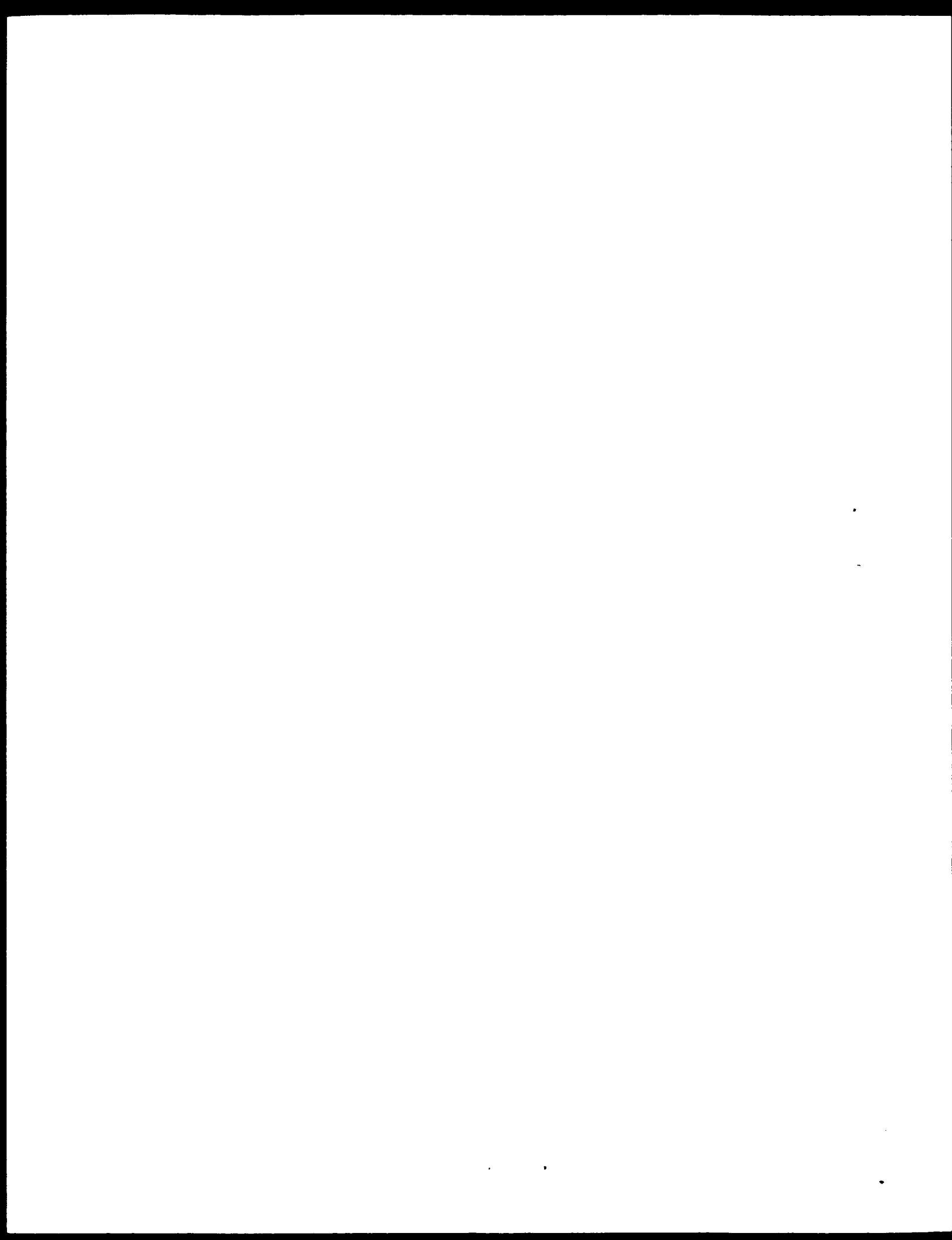


















The present invention provides a number of human immune system associated genes which are modified by the methylation of cytosines. The sequences can be used in the diagnosis and treatment of immune system disorders, including eye diseases such as retinopathy, neurovascular glaucoma and macular degeneration, arteriosclerosis, anaemia, cancer, acute myeloid leukaemia, Alzheimer's disease, and *in vitro* growth of bone tissue.

Score: 532 / 942 = 56.2% (2016-08-16 14:49:00.000000)

97 KITATAGAKIAMIUTICHTITATGAAKAMIGOTCTTIAATGAAKATA 156





differences serving as basis for diagnosis and/or prognosis events which are disadvantageous to patients. The present sequence is one of the 543 antisense sequence derived from tumour suppressor gene and oncogenes.

July Match Best Local Similarity 5.48; Score 51; Length 60.47  
Matches 117; Conservation 0; Pred. No. 0.012; Mismatches 110; Decls. 0; Dels. 0.47

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chemically treated PVA repair tape fragment #23.

Other syndromes associated with a rare cause of breast cancer include the Werner syndrome, the Bloom's syndrome, the Gardner syndrome, and the Li-Fraumeni syndrome. Trichothiodystrophy, Fanconi's anemia, and solid tumours can also occur.

Wk200181622\_NL

$$0.1\cdot\mathbf{W} = \mathbf{Z} \cdot \mathbf{S}^T \cdot \mathbf{Z}^T.$$

0.7° AEP-2.000; 2000E-1019173,  
0.6° JIN-2.000; 2000E-1014252,  
0.6° SHF-2.000; 2000E-1043822,

## CHAPTER 1. EXPERIMENTAL AND COMPUTATIONAL METHODS

Nov 2002 - 1999

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PA (EP165) EPIPHENOMENALISM AND  
XX

XX	Wt. 1: 2.42; 1.2, 0.4, 0.2.	Rest 1: 32
XX	Recombinant vector mediated DNA sequencing, used in the characterization of the 5' untranslated region, drafting, sequencing, treatment, analysis, diagnosis, astrocytomas or glioblastomas.	Rest 2: 33
XX	Claim 11: Site 11, No 5, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 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956, 957, 958, 959, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 998, 999, 999, 1000, 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1008, 1009, 1009, 1010, 1011, 1012, 1013, 1014, 1015, 1016, 1017, 1018, 1019, 1019, 1020, 1021, 1022, 1023, 1024, 1025, 1026, 1027, 1028, 1029, 1029, 1030, 1031, 1032, 1033, 1034, 1035, 1036, 1037, 1038, 1039, 1039, 1040, 1041, 1042, 1043, 1044, 1045, 1046, 1047, 1048, 1049, 1049, 1050, 1051, 1052, 1053, 1054, 1055, 1056, 1057, 1058, 1059, 1059, 1060, 1061, 1062, 1063, 1064, 1065, 1066, 1067, 1068, 1069, 1069, 1070, 1071, 1072, 1073, 1074, 1075, 1075, 1076, 1077, 1078, 1079, 1079, 1080, 1081, 1082, 1083, 1084, 1085, 1085, 1086, 1087, 1088, 1089, 1089, 1090, 1091, 1092, 1093, 1094, 1095, 1095, 1096, 1097, 1098, 1099, 1099, 1100, 1101, 1102, 1103, 1104, 1105, 1106, 1107, 1108, 1108, 1109, 1110, 1111, 1112, 1113, 1114, 1115, 1116, 1117, 1118, 1119, 1119, 1120, 1121, 1122, 1123, 1124, 1125, 1126, 1127, 1128, 1129, 1129, 1130, 1131, 1132, 1133, 1134, 1135, 1135, 1136, 1137, 1138, 1139, 1139, 1140, 1141, 1142, 1143, 1144, 1145, 1145, 1146, 1147, 1148, 1149, 1149, 1150, 1151, 1152, 1153, 1154, 1155, 1155, 1156, 1157, 1158, 1159, 1159, 1160, 1161, 1162, 1163, 1164, 1165, 1165, 1166, 1167, 1168, 1169, 1169, 1170, 1171, 1172, 1173, 1174, 1175, 1175, 1176, 1177, 1178, 1179, 1179, 1180, 1181, 1182, 1183, 1184, 1185, 1185, 1186, 1187, 1188, 1189, 1189, 1190, 1191, 1192, 1193, 1194, 1195, 1195, 1196, 1197, 1198, 1199, 1199, 1200, 1201, 1202, 1203, 1204, 1205, 1206, 1207, 1208, 1208, 1209, 1210, 1211, 1212, 1213, 1214, 1215, 1215, 1216, 1217, 1218, 1219, 1219, 1220, 1221, 1222, 1223, 1224, 1225, 1225, 1226, 1227, 1228, 1229, 1229, 1230, 1231, 1232, 1233, 1234, 1235, 1235, 1236, 1237, 1238, 1239, 1239, 1240, 1241, 1242, 1243, 1243, 1244, 1245, 1246, 1247, 1247, 1248, 1249, 1249, 1250, 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1389, 1390, 1391, 1392, 1393, 1394, 1395, 1395, 1396, 1397, 1398, 1399, 1399, 1400, 1401, 1402, 1403, 1404, 1405, 1405, 1406, 1407, 1408, 1409, 1409, 1410, 1411, 1412, 1413, 1414, 1415, 1415, 1416, 1417, 1418, 1419, 1419, 1420, 1421, 1422, 1423, 1424, 1425, 1425, 1426, 1427, 1428, 1429, 1429, 1430, 1431, 1432, 1433, 1434, 1435, 1435, 1436, 1437, 1438, 1439, 1439, 1440, 1441, 1442, 1443, 1444, 1445, 1445, 1446, 1447, 1448, 1449, 1449, 1450, 1451, 1452, 1453, 1454, 1455, 1455, 1456, 1457, 1458, 1459, 1459, 1460, 1461, 1462, 1463, 1464, 1465, 1465, 1466, 1467, 1468, 1469, 1469, 1470, 1471, 1472, 1473, 1474, 1475, 1475, 1476, 1477, 1478, 1479, 1479, 1480, 1481, 1482, 1483, 1484, 1485, 1485, 1486, 1487, 1488, 1489, 1489, 1490, 1491, 1492, 1493, 1494, 1495, 1495, 1496, 1497, 1498, 1499, 1499, 1500, 1501, 1502, 1503, 1504, 1505, 1505, 1506, 1507, 1508, 1509, 1509, 1510, 1511, 1512, 1513, 1514, 1515, 1515, 1516, 1517, 1518, 1519, 1519, 1520, 1521, 1522, 1523, 1524, 1525, 1525, 1526, 1527, 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QY	176 CTCCTCAATTAGCTATCAACAACTGTAGATGCTTGGGATATTTGATAAA	235	match	27 mismatch	159	models	27	Caps
Db	2362 GAATTTAATTAAATTTAAATAGAGTTGGATTATTTAGAAATT	2421	QY	81 ATTTAGTAGGAGTAAATTAATGCTAAATTCCTCTTGAAATGAAATGCTTC	140			
Db	2366 TGTGTTAAATGATGTTGAAAGATTTGAAATTTCTTGTCTT	292	Db	9916 ATTTGGTTAAATTTAAATTTAAATGAAATTTAAATTTAGTT	9975			
Db	2422 TAAAAATAGATGAAATTAAATTAATTAATTTT	2468	QY	141 TTAATGAAATGATAATTAAGTTGGAAATTCTCTCTAAATGATAACAAAT	200			
			Db	9976 TGGATTTCTTATGAGGTTTGATTTGATTTGATTTGATTTAAT	10055			
RESULT 13								
AAS4538			QY	201 TGTAGATGCTTGGGATGAAATTGATAATTTGTTGAAATGAAATGAA	260			
ID:	AAS45388 standard, DNA, 15732 BP,		Db	10636 GATTTGGATTTTATTTATTTAATTTAATTTAATTTAATTTAAT	10098			
XX			QY	261 GATTTGGATTTGTTGAAATGAAATGAAATGAAATGAAATGAAATGAA	420			
AC	AAS45388;		Db	13634 TAATTTATTTATTTATTTATTTATTTATTTATTTATTTATTTAAT	1615			
XX			QY	321 TTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT	480			
XX			Db	10174 AACATT	10213			
DE	chemically precipitated genomic DNA associated with cell cycle #47,		QY	381 AAAATTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
DE	Cell cycle; human CPC dialectic; citosine methylation; HIV; ageing;		Db	10214 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	10248			
FW	human immunodeficiency virus; neurodegenerative disorder; solid tumour;		QY	10215 AACATT	415			
FW	adult versus old disease; new body disease; cancer;		Db	10216 TTTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	10248			
FW	arthritis; arteriosclerosis; anti-HIV; neuroprotective; antiarthritic;		QY	10217 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
FW	immunosuppressive; antineurone; cytosine; antiarteriosclerotic; 4s;		Db	10218 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	10248			
XX			XX	10219 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
OS	Homo sapiens.		XX	10220 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
XX			XX	10221 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PN	W0200168911-A2		XX	10222 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
XX			XX	10223 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PD	20-SEP-2001		XX	10224 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
XX			XX	10225 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PF	15-MAR-2001; 2931WC B702345;		XX	10226 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
XX			XX	10227 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PR	15-MAR-2000; 20000B-1013847;		XX	10228 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PR	06-APR-2000; 29300B-1013058;		XX	10229 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PR	07-APR-2000; 29300B-1014173;		XX	10230 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PR	31-JUN-2000; 29300B-1023629;		XX	10231 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PR	01-SEP-2000; 29300B-1042426		XX	10232 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PA	(EPIC+) EPIGENOMICS AG		XX	10233 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PI	Oleks A. Piepenbrock C. Berlin K.		XX	10234 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
XX			XX	10235 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
DR	W00168911-A2		XX	10236 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PT	Designing primers and probes for analysing diseases associated with		XX	10237 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PT	cytosine methylation state e.g. arthritis, cancer, amin,		XX	10238 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PT	arteriosclerosis comprising fragments of chemically modified genes		XX	10239 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PT	associated with cell cycle -		XX	10240 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
XX			XX	10241 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS	SEQ ID No 93; 28pp; English.		XX	10242 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
XX			XX	10243 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
CC	Sequences AAS45388 represent chemically precipitated genomic DNA		XX	10244 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
CC	molecules associated with the cell cycle and specific PCR primers of the		XX	10245 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
CC	Invention. The sequences are useful for detecting the methylation state		XX	10246 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
CC	of all CPC dimers/oligonucleotides in a sequence and therefore for analysis		XX	10247 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
CC	of associated diseases. By analysing cytosine methylation in the pretreated		XX	10248 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
CC	DNA, genetic and/or epigenetic parameters for the diagnosis and therapy		XX	10249 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
CC	of existing diseases or the predisposition to specific diseases can be		XX	10250 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
CC	ascertained. The parameters may be adapted to another set of genetic		XX	10251 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
CC	and/or epigenetic parameters, the differences serving as basis for		XX	10252 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
CC	diagnosis and/or prognosis which are also dependent on patients,		XX	10253 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
CC	The sequences of the invention are useful for the diagnosis and therapy		XX	10254 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
CC	of HIV infection, neurodegenerative disorders, graft versus host disease,		XX	10255 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
CC	aging, glomerular disease, low body disease, arthritis, arteriosclerosis,		XX	10256 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
CC	solid tumours, solid tumours and cancers.		XX	10257 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
XX			XX	10258 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
XX			XX	10259 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
XX			XX	10260 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS	Sequences 15732 EP: 4538 A; 70 C; 2672 G; 8552 T; 0 other;		XX	10261 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS	best local similarity 49.0%; Pred. No. 0.017;		XX	10262 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS	Length 15732		XX	10263 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10264 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10265 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10266 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10267 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10268 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10269 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10270 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10271 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10272 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10273 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10274 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10275 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10276 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10277 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10278 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10279 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10280 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10281 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10282 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10283 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10284 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10285 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10286 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10287 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10288 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10289 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10290 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10291 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10292 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10293 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10294 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10295 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10296 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10297 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10298 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10299 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10300 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10301 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10302 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10303 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10304 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10305 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10306 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10307 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10308 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10309 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10310 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10311 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10312 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
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PS			XX	10314 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
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PS			XX	10317 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
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PS			XX	10320 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10321 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10322 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10323 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10324 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10325 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10326 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10327 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
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PS			XX	10330 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10331 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10332 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS			XX	10333 CCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTT	415			
PS								

The invention relates to a nucleic acid, which comprises a segment of the cDNA of the human *SNORD1A* gene, associated with lRNA transcription, transcript of 446 nucleotides, and an oligonucleotide probe complementary to the peptide nucleic acid (PNA) sequence that hybridizes to or is identical to the chemically synthesized oligonucleotide probes associated with lRNA transcription. The set of oligonucleotide probes are useful for detecting the lRNA transcription site and/or single nucleotide polymorphisms (SNPs) in a chemically synthesized dendrimer lRNA. The nucleic acids are useful for diagnosis of certain diseases associated with lRNA transcription. Certain lRNAs, at the methylation status, e.g., addition, deamination, deethylation, etc., have different activities. Infection, Sezary syndrome, bacterial infection, immunological disorders, Werner's syndrome, tuberous sclerosis, developmental disorders, fibrotic lesions, Wiedemann-Beckwith syndrome, developmental disorders, liver fibrosis, myocardial infarction, Niemann-Pick disease, myocardial dystrophic syndrome, infantile toxic nephropathy, osteoarthritis, ergotriptophanic disorders, congenital heart disease, Hirschsprung's syndrome, paroxysmal hypertension, cancer, Sequencer, *Aspergillus fumigatus* transcription, associated sequence data, and other uses of the invention.

NAME	NUMBER	TYPE	DESCRIPTION	DATE
201	1031	DATA	DATA	10/10/2011
202	1032	DATA	DATA	10/10/2011
203	1033	DATA	DATA	10/10/2011
204	1034	DATA	DATA	10/10/2011
205	1035	DATA	DATA	10/10/2011
206	1036	DATA	DATA	10/10/2011
207	1037	DATA	DATA	10/10/2011
208	1038	DATA	DATA	10/10/2011
209	1039	DATA	DATA	10/10/2011
210	1040	DATA	DATA	10/10/2011
211	1041	DATA	DATA	10/10/2011
212	1042	DATA	DATA	10/10/2011
213	1043	DATA	DATA	10/10/2011
214	1044	DATA	DATA	10/10/2011
215	1045	DATA	DATA	10/10/2011
216	1046	DATA	DATA	10/10/2011
217	1047	DATA	DATA	10/10/2011
218	1048	DATA	DATA	10/10/2011
219	1049	DATA	DATA	10/10/2011
220	1050	DATA	DATA	10/10/2011
221	1051	DATA	DATA	10/10/2011
222	1052	DATA	DATA	10/10/2011
223	1053	DATA	DATA	10/10/2011
224	1054	DATA	DATA	10/10/2011
225	1055	DATA	DATA	10/10/2011
226	1056	DATA	DATA	10/10/2011
227	1057	DATA	DATA	10/10/2011
228	1058	DATA	DATA	10/10/2011
229	1059	DATA	DATA	10/10/2011
230	1060	DATA	DATA	10/10/2011
231	1061	DATA	DATA	10/10/2011
232	1062	DATA	DATA	10/10/2011
233	1063	DATA	DATA	10/10/2011
234	1064	DATA	DATA	10/10/2011
235	1065	DATA	DATA	10/10/2011
236	1066	DATA	DATA	10/10/2011
237	1067	DATA	DATA	10/10/2011
238	1068	DATA	DATA	10/10/2011
239	1069	DATA	DATA	10/10/2011
240	1070	DATA	DATA	10/10/2011

The present invention provides a number of human immuno system associated genes which are modified by the mutation of cysteine. The sequences can be used in the diagnosis and treatment of human system disorders, particularly diseases such as, for example, immunological disorders, and bacterial diseases, arteriosclerosis, atherosclerosis, cancer, autoimmune diseases, Parkinson's, Alzheimer's disease, AIDS, epilepsy, heart failure, diabetes, the fibrotic and the like, particularly and particularly, to some of the diseases. The present sequence is a gene of the invention.





COUNTRY: USA  
 ZIP: 27709  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: DOS, MAC, OS/2  
 SOFTWARE: patentin Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US 08-2549-414  
 FILING DATE: 24-DEC-1997  
 CLASSIFICATION: 435  
 PRIORITY APPLICATION DATA:  
 APPLICATION NUMBER: 2H 2616-47  
 FILING DATE: 31-DEC-1996  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Meigs, J. Timothy  
 REFERENCE TO: 2H 2616-47  
 REGISTRATION NUMBER: 38-241  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 919-541-8587  
 TELEFAX: 919-541-8889  
 INFORMATION FOR SEQ ID NO: 701:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 701 base pairs  
 TYPE: nucleic acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: DNA (genomic)  
 ORIGINAL SOURCE:  
 ORGANISM: PAG1462sp  
 5-08-998-416-701  
 Query Match  
 Best local Similarity 4.28; Score 39.8; DB 4; Len  
 Matches 101; Conserving 0; Mismatches 132; L  
 51 TAGCTCTATGCTCAAATAACTGGCTCTTAAGAAATGATAAA  
 519 TATAATAGAACTAACTAACTAACTAACTAACTAACTAACTAA  
 171 AAATCTTCGAAATGACTGACATGACATGACATGACATGACATG  
 579 TTTTAT  
 231 ATAAATGGTAAAGATGTA 25  
 639 ATAAATGGTAAAGATGTA 66  
 501 5  
 Sequence 186, Application 05/0998416  
 Patent No. 6,219,264  
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 APPLICANT: Wendland, Juriene  
 APPLICANT: Knoechle, Philipp  
 APPLICANT: Reblischuk, Gorline  
 TITLE OF INVENTION: GENOMIC DNA SUGGESTIONS OF ASSEYK  
 NUMBER OF SEQUENCES: 1152  
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 STATE: NC 27709-2616, USA



TITLE OF INVENTOR: Vectors for Tissue Plasminogen Activator  
 NUMBER OF SEQUENCES: 39  
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 STATE: Ontario  
 COUNTRY: Canada  
 ZIP: M5H 3Y2  
 COMPUTER READABLE FORM:  
 COMPUTER TYPE: FLOPPY DISK  
 COMPUTER: IBM PC COMPATIBLE  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent In Release 1.0, Version #1.25  
 APPLICATION NUMBER: US7094993 795A  
 FILING DATE: 27-JUN-1997  
 CLASSIFICATION: 435  
 ATTORNEY/AGENT/INVENTOR: GAMBATTI, G.  
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 REGISTRATION NUMBER: 40,251  
 TELEGRAM/TELEX NUMBER: 7841-062  
 TELECOMMUNICATION INFORMATION  
 TELEPHONE: (416) 364-7311  
 TELEFAX: (416) 361-1398  
 INFORMATION FOR SEQ ID NO: 36,  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 665 base pairs  
 TYPE: nucleic acid  
 STRANDBNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: cDNA  
 ORIGINAL SOURCE:  
 ORGANISM: Homo sapiens  
 IMMEDIATE SOURCE:  
 CLONE: Rh 32  
 55-08 883-755A-36

APPLICANT: Burnham, Martin  
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APPLICANT: Knowles, David  
APPLICANT: Lantato, Michael  
APPLICANT: Nicholas, Richard  
APPLICANT: Pratt, Julie  
APPLICANT: Reichard, Richard  
APPLICANT: Rosenberg, Martin  
APPLICANT: Ward, Judith Martin  
TITLE OF INVENTION: NO. 6,348,326 Prokaryotic Polynucleotides, Their Use and Their Derivatives, Prokaryotes and Their Uses  
NUMBER OF SEQUENCES: 534  
CORRESPONDENCE ADDRESS:  
ADDRESS: SmithKline Beecham Corporation  
STREET: 709 Swedeland Road  
CITY: Philadelphia  
STATE: PA  
COUNTRY: USA  
OIC: 19406-0939  
COMPUTER READABLE FORM:  
BLOCKS ARE READABLE  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FASTSEQ FOR Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: 09/687,365A  
FILING DATE: 24 SEP 1997  
CLASSIFICATION: 546  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 09/002,022  
FILING DATE: 24 SEP 1996  
ATTORNEY/AGENT: HIRSCHFELD & CO.  
NAME: Gianni, Edward R.  
REGISTRATION NUMBER: 38,891  
REFERENCE/APP NUMBER: 09/414,309  
TELECOMMUNICATIONS CORPORATION: Prodigy  
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CITY: New York  
STAFF: NY  
COUNTRY: USA  
ZIP: 100-66  
NAME: Michael Faraday  
ADDRESS: 12345 1st Avenue  
COMPUTER: IBM PC compatible  
MEDIA TYPE: 3.5" disk  
OPERATING SYSTEM: PC/MS-DOS  
SOFTWARE: Patent in Release #1.0, Version #1.25  
CURRENT APPLICATION: USA  
APPLICATION NUMBER: 08/999,999, USA  
FILING DATE: 40-MAR-1994  
CLASSIFICATION: A65  
ATTORNEY/AGENT: Mr. Arnold S.  
NAME: Frederick W. Lillie S.  
REGISTRATION NUMBER: 25,576  
REGISTRATION DATE: 14-JUN-1994  
TELECOMMUNICATION INFORMATION  
TELEPHONE: (212) 840-3333  
TELEFAX: (212) 841-9712  
TELELEX: 425066.CIRIAMS  
INFORMATION REQUESTED:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 365, 3 base pairs  
TYPE: nucleic acid  
SUBSTRATE(S): single  
TOPOLOGY: linear  
SEQUENCE TYPE: cDNA  
S. 08 229-151-72



7b 1886 ATGATTTCTGATATAATACATTAACATTTAAATTTCTTTAGAACCTCTCATATAATTCAT 1827  
QY 389 TCTTTATATTCATCA 404  
D6 RE6 ATATTTATTTTCATCA 1811

Starts (continued): February 24, 2003, 14:47:09  
Job time: 165 secs

